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**1 Technical poster session 3: multimedia tools, end-systems, and applications:**



## Classification of human actions using face and hands detection

Hitoshi Ikeda, Masahiro Maeda, Noriiji Kato, Hirotsugu Kashimura

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  pdf(988.23 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe a novel classification technique that separates video scenes, like office work tasks, into several scenes according to each task. Even if the difference of as a whole image frame by frame in each task is small, the difference of worker's movement is quite big due to the position of face and hands according to each task. In addition, the worker has the tendency to turn his/her face to look at the particular objects of individual tasks like PC, a document, and so on. ...

**Keywords:** classification, face detection, hand detection, hierarchical clustering, video

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